

S P E C I F I C A T I O N  
SYSTEMS AND METHODS FOR CONTROLLING OUTPUT POWER IN A  
COMMUNICATION DEVICE  
BACKGROUND OF THE INVENTION

1. Field of the Invention

[001] The invention relates generally to wireless communication and more particularly to systems and methods for controlling the output power in a wireless communication device.

2. Background

[002] This application is a Continuation-in-part of Patent Application 10/035,596 (Attorney docket number UTL 00116) filed October 22, 2001 and hereby incorporated by reference. *is now a U.S. Patent 6,710,651*

[003] There are several factors that impact the transmit power level in the transmitter of a wireless communication device. Two factors that limit the transmit power level, for example, are: 1) Specific Absorption Rate (SAR) requirements; and 2) Adjacent Channel Power Ratio (ACPR) requirements. SAR is a metric used to evaluate compliance of portable devices with the maximum permissible exposure limits as defined in the FCC guidelines on human exposure to Radio Frequency (RF) emissions. Effectively, the FCC guidelines place a limit on the maximum transmit power of a communication device in order to prevent exposure by users of such devices to excessive levels of RF energy.

[004] ACPR is generally defined as the ratio of the average power in the adjacent frequency channel to the average power in the transmitted frequency channel. In